9.5 notes Math 1050

**Binomial Theorem**

**Combinations** Evaluation of  . If j and n are integers with 

Examples:

  

 use your calculator nCr (combinations)

**Four useful formulas involving the symbol ** 

**Use the Binomial Theorem**

Let x and a be real numbers. For any positive integer n, we have 

See Examples 2-3 pg. 670-671



Based on the expansion of (*x - a*)n, the term containing xj is 

See Example5 pg. 672

Find the sixth term of (*x* + 2)9